



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit :  
Examiner :  
Serial No. : 10/730,725  
Filed : December 8, 2003  
Inventor(s) : David Bengtson  
              : Dale Scott Douglas  
Title : COMPENSATING FOR LOAD PULL  
          : IN ELECTROMAGNETIC SIGNAL  
          : PROPAGATION USING ADAPTIVE  
          : IMPEDANCE MATCHING  
          :

Customer No. 26794

Docket No.: 18126

Dated: March 10, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Sir:

Certificate of Mailing Under 37 CFR 1.8

For

Postcard

Information Disclosure Statement  
Form PTO-1449 w/copies of 19 publications

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Name of Applicant, Assignee, Applicant's Attorney  
or Registered Representative:

Piper Rudnick LLP  
Customer No. 035811

By: \_\_\_\_\_

Date: \_\_\_\_\_ 3/10/04



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INFORMATION DISCLOSURE STATEMENT

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P.O. Box 1450  
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Sir:

The Applicant(s) submit(s) herewith Form PTO-1449 together with copies of the non-US publications listed therein. The documents are submitted to comply with 37 C.F.R. §1.56 and are believed related to this application.

The Applicant(s) respectfully request(s) that this Information Disclosure Statement be officially entered into the file and that appropriate notification be made that it was considered by the Examiner.

Respectfully submitted,

Paul A. Taufer  
Reg. No. 35,703  
Attorney for Applicants

PAT:es  
(215) 656-3385



PTO/SB/08A (02-03)

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				<b>Complete if known</b>	
				Application Number	10/730,725
				Filing Date	12/08/2003
				First Named Inventor	David Bentson et al.
				Art Unit	
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Sheet	1	of	6	Attorney Docket Number	18126

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1	US- 3,978,422	08-31-1976	Rheinfelder	
	2	US- 4,580,111	04-01-1986	Swanson	
	3	US- 4,586,000	04-29-1986	Wagner	
	4	US- 4,646,359	02-24-1987	Furrer	
	5	US- 5,278,997	01-11-1994	Martin	
	6	US- 5,311,143	05-10-1994	Soliday	
	7	US- 5,410,280	04-25-1995	Linguet et al.	
	8	US- 5,642,002	06-24-1997	Mekanik et al.	
	9	US- 5,774,017	06-30-1998	Adar	
	10	US- 5,818,298	10-06-1998	Dent et al.	
	11	US- 5,880,633	03-09-1999	Leizerovich et al.	
	12	US- 5,892,431	04-06-1999	Osterman	
	13	US- 5,930,128	07-27-1999	Dent	
	14	US- 5,939,951	08-17-1999	Bateman et al.	
	15	US- 5,942,946	08-24-1999	Su et al.	
	16	US- 5,952,895	09-14-1999	McCune, Jr. et al.	
	17	US- 6,043,707	03-28-2000	Budnik	
	18	US- 6,043,712	03-28-2000	Leizerovich et al.	
	19	US- 6,075,413	06-13-2000	Katakura	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
	20	WO 01/10013 A1	02-08-2001	Tropian Inc.	

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Sheet	2	of	6
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	21	US- 6,078,628	06-20-2000	Griffith et al.	
	22	US- 6,094,101	07-25-2000	Sander et al.	
	23	US- 6,097,252	08-01-2000	Sigmon et al.	
	24	US- 6,101,224	08-08-2000	Lindoff et al.	
	25	US- 6,112,071	08-29-2000	McCune, Jr.	
	26	US- 6,133,788	10-17-2000	Dent	
	27	US- 6,140,875	10-31-2000	Van Den Homberg et al.	
	28	US- 6,140,882	10-31-2000	Sander	
	29	US- 6,147,553	11-14-2000	Kolanek	
	30	US- 6,157,681	12-05-2000	Daniel et al.	
	31	US- 6,191,653 B1	02-20-2001	Camp, Jr. et al.	
	32	US- 6,198,347 B1	03-06-2001	Sander et al.	
	33	US- 6,201,452 B1	03-13-2001	Dent et al.	
	34	US- 6,215,355 B1	04-10-2001	Meck et al.	
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	36	US- 6,219,394 B1	04-17-2001	Sander	
	37	US- 6,236,284 B1	05-22-2001	Duello et al.	
	38	US- 6,242,975 B1	06-05-2001	Eidson et al.	
	39	US- 6,246,286 B1	06-12-2001	Persson	
	40	US- 6,255,906 B1	07-03-2001	Eidson et al.	

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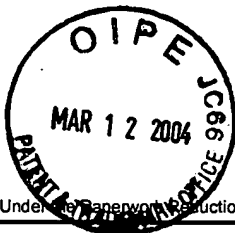
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	41	US- 6,259,901 B1	07-10-2001	Shinomiya et al.	
	42	US- 6,269,135 B1	07-31-2001	Sander	
	43	US- 6,285,251 B1	09-04-2001	Dent et al.	
	44	US- 6,288,916 B1	09-11-2001	Liu et al.	
	45	US- 6,294,957 B1	09-25-2001	Luu	
	46	US- 6,297,694 B1	10-02-2001	Yamamoto	
	47	US- 6,298,244 B1	10-02-2001	Boesch et al.	
	48	US- 6,311,046 B1	10-30-2001	Dent	
	49	US- 6,317,608 B1	11-13-2001	Glöcker	
	50	US- 6,321,072 B1	11-20-2001	Cipriani et al.	
	51	US- 6,323,731 B1	11-27-2001	McCune, Jr.	
	52	US- 6,356,155 B1	3-12-2002	Judkins	
	53	US- 6,366,177 B1	04-02-2002	McCune et al.	
	54	US- 6,369,657 B2	04-09-2002	Dening et al.	
	55	US- 6,377,784 B2	04-23-2002	McCune	
	56	US- 6,380,802 B2	04-30-2002	Pehike et al.	
	57	US- 6,404,823 B1	06-11-2002	Grange et al.	
	58	US- 6,411,655 B1	06-25-2002	Holden et al.	
	59	US- 6,426,677 B1	07-30-2002	Prentice	

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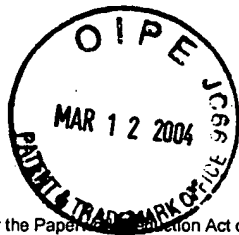
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Sheet	4	of	6
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	60	US- 6,426,678 B1	07-30-2002	Ko	
	61	US- 6,430,402 B1	08-06-2002	Agahi-Kesheh	
	62	US- 6,445,247 B1	09-03-2002	Walker	
	63	US- 6,449,465 B1	09-10-2002	Gailus et al.	
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<b>Sheet</b>	5 of 6	<b>Attorney Docket Number</b>	18126

OTHER PRIOR ART–NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	64	HULICK, "The Digital Linear Amplifier", Schwenksville, Pennsylvania	
	65	KOZYREY, "Single-Ended Switching-Mode Tuned Power Amplifier with Filtering Circuit", Poluprovodnikovye pribory v tekhnike svyazi, 1971, pp. 152-166, Vol. 6.	
	66	TimeStar™, "Multi-Mode Polar Modulator" 2002, Tropian Headquarters, USA	
	67	SUNDSTROM, "Digital RF Power Amplifier Linearisers", 1995, Sweden.	
	68	KENINGTON, "Linearised RF Amplifier and Transmitter Techniques", Microwave Engineering Europe, November 1998.	
	69	MANN, et al., "Increasing Talk-Time with Efficient Linear PAs", Presented at IEE Colloquium on Tetra Market and Technology Developments, February 2000, London.	
	70	MANN, et al., "Increasing the Talk-Time of Mobile Radios with Efficient Linear Transmitter Architectures", Electronics & Communication Engineering Journal, April 2001, pp. 65-76, Vol. 13, No. 2.	
	71	HEIMBACH, "Digital Multimode Technology Redefines the Nature of RF Transmission", Applied Microwave & Wireless, August 2001	
	72	SWANSON, "Digital AM Transmitters", IEEE Transactions on Broadcasting, June 1989, pp. 131-133, Vol. 35, No. 2.	
	73	TROPIAN-PRODUCTS MAIN, www.tropian.com/products/, Copyright 2000-2001, 8/14/02	

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	74	"Tropian and Agilent Technologies announce collaboration on multi-band, multi-mode 2.5G transmitter solutions", February 18, 2002, Cannes, France.		
	75	"Tropian Awarded 8 <sup>th</sup> U.S. Patent for Wireless Technology: Innovative RF Power Processing Circuit Architecture Achieves Speed and Accuracy in Polar Modulation," August 6, 2001, Cupertino, California.		
	76	Dialog Web Command Mode, Page 1 of 1, 09/17/2002, Record 03929207, Polar Modulators for 1 and 2 GHz Power Amplifier Correction, NISBET, J.		
	77	Dialog Web Command Mode, Page 1 of 1, 09/17/2002, Record 0326082, A new Class-AB Design, DE JAGER, et al., Electronics World 105, Dec 1999, p. 982-7.		
	78	Dialog Web Command Mode, Page 1 of 1, 09/17/2002, Record 2371235, Increasing the talk-time of mobile radios with efficient linear transmitter architectures, MANN et al., Electronics & Communication Engineering Journal, v. 13, No. 2, April 2001 (p. 65-76).		
	79	Dialog Web Command Mode, Page 1 of 3, 09/17/2002, Record 15595216, The big climate amplifier ocean circulation-sea-ice-storminess-dustiness-albedo, BROECKER, Geophysical Monograph, 2001, 126, 53-56, etc.		
	80	Dialog Web Command Mode, Page 1 of 9, 09/19/2002, Record 10872787, Out-of-band emissions of digital transmissions using Kahn EER technique, RUDOLPH, IEEE Transactions on Microwave Theory & Techniques, 2002, V 50, N 8, Aug, p. 1979-1983, etc.		
	81	Dialog Web Command Mode, Page 1 of 20, 09/17/2002. Record 01239474, GSM players Eye Edge Despite Transmit Woes, KEENAN, Electronic Engineering Times, 2002, n 1211, pg. 6.		

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